

**PERFORMANCE DATA SHEET**

2320

**Monoclonal anti-human CD155(PVR)/Biotin\***

**mAb name/Clone:** ANC2B2

**Isotype:** Mouse IgG1κ

**Immunogen:** Recombinant human CD155

**CATALOG#:** 255-030

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** Human CD155 (Polio Virus Receptor, PVR, Necl-5) is a 70 kd type I Ig superfamily molecule (1). It is involved in formation of intracellular junctions between epithelial cells. Its ligands include CD226(DNAM-1), and CD96(TACTILE). CD155 expression by tumor has been shown to be upregulated by Nitric Oxide(2). A soluble version of CD155 has been shown to exist (4). High CD155 expression has recently been exploited to use engineered poliovirus to treat glioblastoma. (3)

Antibody ANC2B2 binds to cell surface CD155 on U-937 cells, and binds to recombinant CD155 in EIA. Antibodies ANC2B2 and ANC6A3 (Catalog # 350-020) each bind to distinct epitopes of CD155 and are suitable as a matched pair for sandwich EIA.

**References:** 1) Medelsohn CL, Racaniello VR, et al. (1989) *Cell* **56**(5): 855-65. 2) C Fionda, M Cippitelli, et al. (2015) *BMC Cancer* **15**(1):17 PMID 25609078. 3) Gromeier M, Bigner D, et al. (2014) *Neuro-Oncology* **16**(supp3): iii41. 4) Baury B, MG Denis, et al. (2003) *Biochem Biophys Res Comm* **309**: 175-82.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/thawing not recommended.

**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured human U-937 cells per tube were washed and pre incubated 5 minutes with 20 µl of 300 µg/ml human IgG (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80 ul of anti-human CD155/Biotin at concentration of **10 µg/ml**. They were then washed twice and incubated with 2<sup>o</sup> reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed twice, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.8 log<sub>10</sub>** fluorescent units when compared to an Isotype control Mouse IgG1/Biotin (catalog #278-010). Binding was blocked when reagent was pre incubated with a 10-fold excess of recombinant CD155-muIg (cat #555-020).

**\*Research Use Only. Not for use in Diagnostic procedures.**

**Binding of anti-CD155(ANC2B2)/Biotin +SA/PE to human U-937 cells**

